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CLAIMS

1. Exhaust silencer, comprised of gas conducting pipe having openings of a defined cross-section and defined wall height, arranged in a silencer housing in such a manner that it runs through an axial series of silencer housing chambers insulated gastight from each other, into which the openings of the gas-conducting pipe communicatively open, characterized by
- a tuning of the volume of all chambers (6) of the silencer housing (1) in combination with the defined openings specifications of all openings (5) of the respectively communicatively arranged openings of a gas-conducting pipe (2) of a silencer housing chamber (6) to an interference frequency band from the noise spectrum of the exhaust gases respectively to be dampened, and by such a course of the pipe (2) through the silencer housing chambers (6) that it runs through each of the silencer housing chambers at least twice, with minimal dissipation losses.
2. Exhaust silencer according to Claim 1, characterized by
- a U-shaped configuration (3, 4) of the pipe conduit in the silencer housing (1).
3. Exhaust silencer according to Claim 1 characterized by
- an S-shaped configuration (3, 4') of the pipe conduit in the silencer housing (1).
4. Exhaust silencer according to one of the Claims 1 through 3, characterized by

a gas-conducting pipe (2) of die cast aluminum or plastic.

5. Exhaust silencer according to one of the Claims 1 through 4,  
characterized by

a configuration of the gas-conducting pipe (2) as a modular part for a silencer housing (1)  
configured in two parts.

6. Exhaust silencer according to Claim 5,  
characterized by

a configuration of the gas-conducting pipe (2) as part of a modular series of modular parts with  
openings specifications which vary from each other in their dimensions and which are tuned to  
the same respective silencer housing chamber volumes, but respectively varying openings  
characteristics for respectively equal silencer housing chamber volumes.

7. Use of the exhaust silencer with features according to one of the Claims 1 through 6 as a  
terminal silencer in exhaust installations of passenger vehicles.